

Abstract

Disclosure is a device and a method for estimating frequency offset in radio receiver. Said device comprises: an analog-to-digital converter, a first storing means
5 having M elements; a multiplication means for performing multiplication between a complex conjugate of delayed sampled element and a current sampled element; a second storing means having N elements; an accumulating means for accumulating output of said multiplication means; and a subtracting means for sequentially subtracting output of second storing means from output of said accumulating means;
10 an estimating means for generating said estimated frequency offset based on an output of said subtracting means. Furthermore, said method is achieved by utilizing the above device in the same principle.